

OROVILLE FACILITIES RELICENSING
INTERIM RECREATION PROJECTS TASK FORCE
REPORT TO THE RECREATION & SOCIOECONOMIC WORK GROUP

May 24, 2001

BACKGROUND

The Interim Recreation Projects Task Force was formed at the request of the Recreation and Socioeconomics Work Group at their regularly scheduled meeting on January 25, 2001. That Task Force was comprised of about 20 individuals representing various interests, including both agencies and locals. In producing the Interim Projects List for submittal to the May 24 Recreation and Socioeconomics Meeting, the Task Force met the following seven times:

- February 2, 2001; 1:30 PM
- February 16, 2001; 9 AM
- February 2, 2001; 1:30 PM
- March 16, 2001; 1:30 PM
- April 20, 2001; 1:30 PM
- May 10, 2001; 9:30 AM
- May 17, 2001; 1:30 PM

These meetings lasted between three and four hours. In addition to these Task Force meetings, subsets of the members of the Task Force met several times to discuss selected issues such as “Trail Issues” and the “Feather River Enhancement Project”. These smaller groups reported their findings back to the Interim Task Force.

Contained in this report are several products produced by the Interim Task Force and Consultants during their efforts to develop the Interim Projects List. The titles and brief descriptions of these documents are as follows.

- **Oroville Facilities Relicensing Interim Projects List** (Attachment A, 6 pgs)
The prioritized list of potential interim projects, with the “Project Name” and brief “Project Description”.
- **Interim Projects Task Force – Scoring Detail: Prioritized List of Interim Projects** (Attachment B, 1 pg) Documents the result of the scoring process undertaken by the Task Force to determine the relative ranking and grouping of the Interim Projects.

- **Evaluation and Approval Process for Oroville Facilities Interim Relicensing Recreation Enhancements** (Attachment C, 3 pgs)

Established the procedures that guided the Interim Task Force in their selection of interim projects, and the anticipated process for submitting the list to DWR.

- **Oroville Facilities Interim Relicensing Recreation Enhancements: Potential Evaluation Criteria** (Attachment D, 2 pgs)

Established the criteria that would guide the evaluation process of individual items for the selection of the potential interim projects.

- **Potential Interim Candidate Projects: Criteria Analysis** (Attachment E, 26 pgs)

A working paper that documents the more detailed analysis of criteria for the Interim Projects. This most recent draft of the document contains only those 37 projects on the Interim List. During various stages of the selection and evaluation process, other potential interim projects may have received such analysis. However, they were subsequently removed from the list when failing to meet the criteria. It should be noted that the criteria analysis and costing are very rough, and were only used for broad-based decision making. Whenever “clear” is noted for “Criteria Analysis”, the Task Force presumed from the available information that the proposed interim project would have a high likelihood to “clear” the criteria. However, the Task Force realizes that further environmental, regulatory or other documentation and analysis could be required.

Several other intermediary lists and tables were used by the Task Force as working drafts to review and narrow down the potential candidates for the Interim Projects List. The subsequent list of 37 Projects was culled from a lengthy list of proposed projects mentioned at various stakeholder meetings, or specifically submitted to the Interim Projects Task Force.

The Interim Task Force realizes that more information may be required to fully detail and describe these Interim Projects before implementation could take place. This additional information could include greater environmental review, more detailed project descriptions, and more exact costing. However, in the interest of time, and the mission of the Interim Task Force this Interim List of Projects is submitted to the Recreation and Socioeconomics Work Group of the Oroville Facilities Relicensing.

OROVILLE FACILITIES RELICENSING
INTERIM RECREATION PROJECTS LIST

Attachment A

OROVILLE FACILITIES RELICENSING
INTERIM RECREATION PROJECTS LIST

Thursday, May 24, 2001

GROUP A “High Priority”

1. Feather River Enhancement Project (18)

Project Description: This potential interim project at River Bend Park is being proposed to include the following integrated components:

- River Bend Park bicycle trail improvements;
- Re-vegetation/Irrigation;
- Day use facilities (picnic/group facilities);
- Parking facilities;
- Public restrooms;
- Re-contouring/restoration/re-vegetation;
- Temporary visitor facility and allied infrastructure;
- Utilities to the site; and
- Security and Maintenance

2. Develop a Demonstration Parallel Mountain Bike Trail (31)

Project Description: Develop a 7-9 mile mountain bike trail, parallel to the Dan Beebe Trail, for off-road mountain bicyclists. . Create a trail system for the off-road cyclists, which does not exist to date. Create a trail for off-road mountain cyclists consistent with the terrain and technicality important to the sport of mountain biking. This plan would create a demonstration course that could stage world-class races.

3. Project name: Vehicle Access at Lakeland Boulevard (30)

Project description: Provide access for vehicles at Lakeland Boulevard to the old railroad grade area of the Diversion Pool with future consideration of improvements to the same area.

4. Additional Rangers (5)

Project description: Fund and fill two new ranger positions at LOSRA.

5. Investigation and Acquisition of Property (32) (AP#033010042)

Project Description: Investigate and acquire 83.14 acres (AP#033010042), which is held by private ownership at present, and is currently offered for sale. The property is located alongside the Lakeland Blvd overlook parking area, adjacent to the Feather River and going west towards the Nature Center.

6. Widening Road Along Greenline (33)

Project Description: Widen the road along “greenline,” the bike path along the road to the Dam. Most areas would require only enhancement of existing shoulders.

7. Fish Hatchery Landscaping (10)

Project description: Replace landscaping at the Feather River Fish Hatchery and adjacent areas.

8. Height-Adjustable Swimming Dock (13)

Project description: Install a height-adjustable swimming dock that will allow users to reach the water when lake level is low. The facility should have permanent, fixed piers that allow an attached floating dock to rise and lower according to lake level. Potential site is the mid-way point in Loafer Creek swim area.

9. Wildlife Technicians/Warden (6)

Project description: Fund and fill two Fish and Wildlife Technician positions for habitat enhancement and one Warden position for wildlife protection. All three positions would be permanent to Oroville Wildlife Area. Also, provide the necessary equipment for these employees to do their jobs.

10. Shooting Range (16)

Project description: Larkin shooting range owned and maintained by the state off Larkin Road south of the Oroville Airport. Enhance the parking area condition, accessibility and drainage.

11. Group Staging Area (34)

Project Description: Establish a large group staging area and event facility that could be used for competitive and “Bike Rodeo” events, with a suggested site being on the Thompson Flat abandoned area.

12. PG&E Land Acquisition (40)

Project Description: Purchase property from PG&E for the purpose of increasing recreational opportunities at LOSRA.

GROUP B “Medium Priority”

13. Investigate Funding Sources for Recreation Development (1)

Project Description: Look at future and reliable funding sources for recreational development.

14. Project name: Promote Existing Facilities (3)

Project description: Market and promote the existing facilities at LOSRA, including the RV parking lot and forebay.

15. Landscaping (7)

Project description: Native plant landscaping and restoration of native plant communities. The potential sites are the Feather River fish hatchery, DPR Headquarters, DWR field office, Kelly Ridge Visitor Center, all other existing and proposed facilities.

16. Camping at the Oroville Wildlife Area (16)

Project description: Improve the camping conditions at the Oroville State Wildlife Area.

17. Restroom Upgrades (27)

Project description: Upgrade portable restrooms to permanent ones.

18. Project Name: Lake Oroville Overlook Improvements-1 (37)

Project Description: Remove old cyclone fence and concrete freeway dividers along Highway 162 north of and adjacent to the Bidwell Bar Suspension Bridge. Replace with a new fence built according to DWR and/or Caltrans specifications. Install a sign with a map and information for the lake. Provide a permanent trash container. The length of the fence is approximately 130 feet. These improvements would be located at the existing paved turnout and would enable the visitor to view or photograph the Lake Oroville vistas and the suspension bridge without interference from the existing fence and freeway dividers.

19. Project name: LOSRA Security (4)

Project description: Evaluate the status of LOSRA security.

20. Project name: Improve Day Use Parks (9)

Project description: Improve day use park: water lines in the east side of the river between the Fish Barrier Dam and the Diversion Dam need to be installed to irrigate plantings. Restroom and day use area improvements needed.

21. Project name: Warning System (26)

Project description: Install warning system for water releases.

22. Project Name: Lake Oroville Overlook Improvements-2 (38)

Project Description: Remove earth hill on the lake side of Highway 162 north of Simpson Ranch Road, between the Bidwell Bar Bridge and the Canyon Creek Bridge. Construct paved parking areas, a visually pleasant fence and permanent trash receptacles. Install a sign with a map and information for the lake.

23. Project name: Removal of Non-Natives (11)

Project description: Create work team or hire CCC to remove invasive, non-native plants from State Water Project and DWR areas.

GROUP C “Low Priority”

24. Project Name: Tournament Waterski Site (21)

Project Description: Develop facilities at the Afterbay to support events, including grandstands, toilets and tournament water ski site.

25. Project name: Shoreline Cleanup (25)

Project description: Clean up shoreline, particularly adjacent to camping and public access areas.

26. Project name: Upgrade Roads to Facilities (28)

Project description: Upgrade roads to facilities within project boundaries, including paving the entrance to the equestrian area.

27. Project name: Boating Safety Training (14)

Project description: Provide safety training on the proper operation of boats. This could occur at Lake Oroville and the North Forebay.

28. Project name: Investigate Reservation System (2)

Project description: Investigate potential for local reservation system for camping facilities at LOSRA.

29. Project name: Reduce Fuel Loads (8)

Project description: Dangerous accumulations of fuel loads exist in areas along the Feather River, particularly below Oroville Dam on the South side of the Feather River through the Long Bar area. Work with GOAFSC and PG&E on plans to reduce loading throughout the area.

30. Project name: Model Airplane Site Improvements (20)

Project description: Provide site improvements to existing flying site for model airplanes.

31. Project Name: Remove Railroad Trestle and Other Debris from River (23)

Project Description: Remove concrete left over from dam and bridge construction. Maintain remnants of historic three-span wooden bridge during removal activities.

32. Project name: Trailer Parking at Equestrian Camp (29)

Project description: Provide boat trailer parking at the Equestrian Camp.

33. Project name: Winterize Floating Campsites (17)

Project description: Convert floating campsites for winter use.

34. Project Name: Campbell Hills Property Acquisition (22)

Project Description: Continue existing uses such as hang-gliding, kite flying, paragliding at area bordering Thermalito Forebay Recreational Area.

35. Project name: Re-seed Oroville Dam and Reservoir Rim (12)

Project description: Re-seed the face of the Lake Oroville Dam and the rim of the reservoir.

36. Project name: Screen Dump Areas and Boneyards (24)

Project description: Screen dump areas and boneyards between the Spillway and the Dam, used by DWR.

37. Project name: Seaplane Base (19)

Project description: Develop a seaplane base at North Thermalito Afterbay for public use.

Seaplane bases can be as simple as a body of water on which seaplanes are permitted to land, but usually include fuel, maintenance, and moorage facilities.

Note : The number in parenthesis refers to the numbering scheme in the Task Force's working paper titled "Oroville Facilities Relicensing: Potential Interim Candidate Projects Criteria Analysis", Attachment E.

**RECREATION AND SOCIOECONOMICS WORK GROUP
INTERIM PROJECTS TASK FORCE – SCORING DETAIL
PRIORITIZED LIST OF INTERIM PROJECTS**

Attachment B

**RECREATION AND SOCIOECONOMICS WORK GROUP
INTERIM PROJECTS TASK FORCE – SCORING DETAIL
PRIORITIZED LIST OF INTERIM PROJECTS**

Revised May 17, 2001

WP #	Interim Project Name	+	-	Score	Priority
18	Riverbend enhancement project	17	0	+17	A
31	Develop a demonstration parallel Mountain bike trail	10	1	+9	A
30	Lakeland Blvd. Vehicle access	8	0	+8	A
5	Additional Rangers	7	0	+7	A
32	Investigate acquisition of property (AP#033010042)	6	0	+6	A
33	Widening some sections of road along greenline	5	0	+5	A
10	Fish Hatchery landscaping	4	0	+4	A
13	Height-adjustable swimming dock	5	1	+4	A
6	Wildlife Technicians/Wardens	6	3	+3	A
16	Shooting Range	6	3	+3	A
34	Group staging area	2	0	+2	A
37	PG&E land acquisition	2	0	+2	A
1	Investigate funding sources for Recreation Development	1	0	+1	B
3	Promote Existing Facilities	1	0	+1	B
7	Landscaping	1	0	+1	B
15	Camping at the Oroville Wildlife Area	1	0	+1	B
27	Restroom upgrades	1	0	+1	B
35	Lake Oroville Overlook Improvements #1	1	0	+1	B
4	LOSRA Security	0	0	0	B
9	Improve Day Use parks	0	0	0	B
26	Warning system	2	2	0	B
36	Lake Oroville Overlook Improvements #2	1	1	0	B
11	Removal of Non-native plants	0	1	-1	B
21	Tournament waterski site	1	3	-2	C
25	Shoreline clean-up	0	2	-2	C
28	Upgrade roads to facilities	0	2	-2	C
14	Boating safety training	1	4	-3	C
2	Reservation System	1	5	-5	C
8	Reduce fuel loads	0	5	-5	C
20	Model airplane site improvements	0	5	-5	C
23	Remove railroad trestle and other Debris from river	0	5	-5	C
29	Trailer parking at equestrian camp	1	5	-5	C
17	Winterize floating campsites	2	8	-6	C
22	Campbell Hills property acquisition	0	6	-6	C
12	Re-seed Oroville Dam and Reservoir rim	0	7	-7	C
24	Screen dump areas and 'boneyards'	0	9	-9	C
19	Seaplane base	0	13	-13	C

Note: WP# refers to the numbering scheme in the Task Force's working paper, Attachment E.

**Evaluation and Approval Process
for
Oroville Facilities Interim Relicensing Recreation Enhancements**

The following is a proposed process to evaluate the merits and selection of proposed interim recreation enhancements for the Oroville Facilities. These recreation enhancements would eventually be part of a new recreation plan that will be submitted by the Department of Water Resources (DWR) to the Federal Energy Regulatory Commission (FERC) as part of its application to relicense the Oroville Facilities. However, the intent is to implement these enhancements prior to submittal of that application.

- **Establish a Task Force**

The Recreation and Socioeconomics Work Group would select a subset of members to represent the larger Work Group in undertaking this particular task. The task force membership would strive to represent the varied interests of the work group while allowing the group to be of a manageable size. A neutral facilitator would facilitate this Task Force. Consultant and DWR staff would be available to assist the Task Force with this process, particularly with any research, or technical expertise required. The Task Force would initially develop a mission statement to guide their efforts.

- **Develop Interim Recreation Enhancement Candidate List**

It would be the responsibility of the Task Force to develop a list of potential interim recreation enhancements. However, the Task Force would elicit this list from the varied interests of the Recreation Work Group. The Work Group would strive to have this list include those recreation enhancements that would be most appropriately implemented prior to submittal of the license application.

Clarify and Describe List Items

To fully evaluate the list, each candidate item would be more fully developed to describe the details of that item. Each item would have such factors as scope of the project,

locations(s), intent, size, and any other associated factors that would enable the Task Force to understand what is being proposed. The goal would be to define each potential enhancement in enough detail so that it is clear and unambiguous to the members of the Task Force.

Develop Preliminary Evaluation Criteria

DWR would assist the Task Force in developing preliminary criteria to evaluate the merits of implementing each potential enhancement during this interim relicensing phase. It would be unfortunate if an interim enhancement measure ultimately conflicted with the final recreation plan, adversely impacted the public welfare or the natural environment, or jeopardized any of the goals of the other relicensing Work Groups. This step would focus on establishing a set of criteria that minimized these possibilities. We also foresee the criteria including the avoidance of projects that would have regulatory requirements, such as FERC approval and environmental permitting and documentation that could make short-term implementation difficult, as well as cost of implementing the enhancement.

Evaluate, Categorize and Prioritize Interim List

The Task Force would then measure each of the proposed recreation enhancements against the set of established criteria. It is emphasized that at this point the Task Force is evaluating these items against the established interim criteria. Recreation enhancements that do not meet these criteria would not be precluded from being evaluated during the relicensing process, and could ultimately be a part of the Final Recreation Plan. Those recreation enhancements that meet the interim criteria would be ranked ordered, and a brief justification statement prepared for each item.

Work Group Consensus

The recommended, prioritized list of recreation enhancements would be presented to the Recreation and Socioeconomics Work Group for their consensus. The evaluation process and justification for each item on this list would be presented to the group. The Work Group could instruct the Task Force to reconvene and modify their list, based on the

discussions of the Work Group. The Task Force would comply with the Work Group recommendations, and subsequently resubmit and present their revised findings to the Work Group.

Plenary Group Consensus

This list of recreation enhancements, approved by the Recreation and Socioeconomics Work Group would then be presented to the Plenary Group for their consensus. Again, the evaluation process and justification for each item on this list would be presented to the group. If consensus is not achieved in this forum the Plenary Group would instruct the Work Group and Task Force how to proceed.

Submittal to DWR

The list of interim recreation enhancements, approved by the Plenary Group, would be submitted to DWR, and other agencies, as appropriate. DWR may contact the Plenary Group, Work Group, or Task Force for discussion or clarification. Aside from any legal, safety, or engineering or funding feasibility constraints, DWR and other appropriate agencies would implement the recommended interim recreation enhancements.

Revised DRAFT

Oroville Facilities Interim Relicensing Recreation Enhancements

Potential Evaluation Criteria

Attachment D

Revised DRAFT

Oroville Facilities Interim Relicensing Recreation Enhancements

Potential Evaluation Criteria

Interim Projects Task Force: February 2, 2001

Regulatory

- Consistent with the Goals and Purpose of the Oroville Facilities
- Consistent with Existing Recreation and Land Use Plans
- Low Likelihood of Conflicting with the New Recreation Plan
- Low Likelihood of Conflicting with the Existing FERC License Order
- Located within the Project Boundary, or Has a Nexus with the Project
- Low Likelihood of Requiring Lengthy or Costly Regulatory Requirements
- Complies with Local, State, and Federal Mandates, Policies and Regulations

Environmental

- Low Likelihood of Conflicting with Known Environmental Concerns
- Low Likelihood of Causing or Contributing to Unforeseen Environmental Concerns or Degradation
- Operational/Safety
- Low Likelihood of Interfering with Current and Likely Future Project Operations
- Does Not Create or Exacerbate Any Safety Hazards

Human/Social

- Promotes Recreation/Tourism/Economic Development
- Low Likelihood of Conflicting with Existing or Potential Economic Ventures
- Does not Create any adverse Effect on Local Residents or Business Owners

- Low Likelihood of Causing a Significant Conflict with or Adverse Impact to Local Services
- Sensitive to Cultural and other Historical Concerns

Recreation

- Promotes Recreational Use of the Oroville Facilities or Other Areas that have a Nexus with the Project
- Appears to be Supported by Current Recreation Use, Trends, or Future Demand
- Low Likelihood of Causing any Adverse Effect on Existing Recreation Facilities and Opportunities
- Does not Preclude Flexibility for Future Recreation Enhancements
- Low Likelihood of Causing or Exacerbating any Conflicts Among Recreation User Groups

Feasibility

- Construction Feasibility
- Construction, Operation, and Maintenance Cost Feasibility
- High Ratio of Benefits to Costs
- Short-Term Implementation (prior to license expiration)
- Potential for Multi-Source Funding

**Oroville Facilities Relicensing
Potential Interim Candidate Projects
Criteria Analysis**

Attachment E

**Oroville Facilities Relicensing
Potential Interim Candidate Projects
Criteria Analysis**

Revised May 24, per the comments of the Task Force Meeting: May 17, 2001

Funding/Promotional

1. Project Name: Investigate Funding Sources for Recreation Development

Project Description: Look at future and reliable funding sources for recreational development.

Criteria Analysis: Clear.

Project cost: Approximately \$15-20,000 for research and documentation.

Assumptions: It could require a full-time staff person one to two months to research sources of funding. The researcher would have to spend considerable time at a major library, on the internet, and on the telephone determining viable funding sources. It could require a researcher eight weeks to determine the funding sources, analyze the findings, and document the results.

2. Project name: Investigate Reservation System

Project description: Investigate potential for local reservation system for camping facilities at LOSRA.

Criteria analysis: Clear.

Project cost: Approximately \$5-10,000 for research and documentation.

Assumptions: To investigate the potential for a reservation system, a researcher would have to determine the costs, on average, to operate a similar system, the capital expenses for the system (computers, software, etc.), and if it would be used. Determining its potential use level could be done with surveys of actual and potential visitors. It could require a researcher one week to determine operating costs of similar systems, two weeks to determine potential use, one week to report the potential of a reservation system. Data about actual and potential use of the service in could be attained in two weeks.

3. Project name: Promote Existing Facilities

Project description: Market and promote the existing facilities at LOSRA, including the RV parking lot and forebay.

Criteria analysis: Clear.

Project cost: Approximately \$10-15,000 for research and documentation. Implementation of the marketing program would be variable, depending on the research results.

Assumptions: A determination should be made about which areas could sustain more use. Once the viable areas have been determined, a promotion campaign could occur. The campaign could develop brochures, a website, and training for the staff at the Kelly Ridge Visitor Center and the entrance kiosk personnel. The evaluation could be determined through discussions with park rangers and accessing visitor use data.

Regarding the RV facility at the Forebay, a researcher would have to determine why current use of RV facilities at Forebay is considered inadequate. After determining inadequacies of facility, the development of a better use could be determined by surveys. Possibly there only needs to be a fraction of the designated RV parking spaces that currently exist and RVs could park elsewhere while the site could be used for boat storage or some other purpose. The evaluation could be determined through discussions with appropriate personnel and accessing site-specific visitor use data.

Additional Staffing Needs

4. Project name: LOSRA Security

Project description: Evaluate the status of LOSRA security.

Criteria analysis: Clear.

Project cost: Approximately \$5-10,000 for research and documentation.

Assumptions: A researcher would have to acquire the records related to security for the LOSRA from DWR, DPR, Butte County sheriff, etc. Also, by discussing the security needs with the same authorities and business and community representatives, problem areas in LOSRA's security could be uncovered. From this information a determination could be made as to where the improvement in security is needed. This would lead to costing out the required personnel and equipment necessary to remedy the problem areas.

5. Project name: Additional Rangers

Project description: Fund and fill two new ranger positions at LOSRA.

Criteria analysis: Clear.

Project cost: The approximate cost of the three employees would be \$300,000 per year, with benefits. Over a 30-50 year license period, the total cost would be \$9-15 million. During an interim 5 year period, the cost would be about \$1.5 million.

6. Project name: Wildlife Technicians/Warden

Project description: Fund and fill two Fish and Wildlife Technician positions for habitat enhancement and one Warden position for wildlife protection. All three positions would be permanent to Oroville Wildlife Area. Also, provide the necessary equipment for these employees to do their jobs.

Criteria analysis: Clear.

Project cost: The approximate cost of the three employees would be \$300,000 per year, with benefits. Over a 30-50 year license period, the total cost would be \$9-15 million. During an interim 5 year period, the cost would be about \$1.5 million.

Vegetation-Removal and/or Replacement

7. Project name: Landscaping

Project description: Native plant landscaping and restoration of native plant communities. The potential sites are the Feather River fish hatchery, DPR Headquarters, DWR field office, Kelly Ridge Visitor Center, all other existing and proposed facilities.

Criteria analysis: Clear.

Project cost: Removal of non-natives and excessive fuel loads could take four DPR staff personnel one month at accost of about \$30-40,000. Landscape architect fees about \$10-15,000. Planting of native vegetation about \$30-40,000. The cost of the plants could cost \$10,000. Project manager about \$5-10,000. Total cost of about = \$85-115,000

Assumptions: A landscape architect would have to submit designs for the planting proposals and landscape contractors would supply and plant the material as proposed. A project manager would have to oversee the project. Before re-vegetation could take place non-native species and

dangerous fuel loads would be removed. DPR staff could prepare the areas for appropriate vegetation and do the planting. It is a moderate-sized project capable of DPR staff labor and the plants would cost \$10,000 or less.

8. Project name: Reduce Fuel Loads

Project description: Dangerous accumulations of fuel loads exist in areas along the Feather River, particularly below Oroville Dam on the South side of the Feather River through the Long Bar area. Work with GOAFSC and PG&E on plans to reduce loading throughout the area.

Criteria analysis (Environmental): Criteria analysis (Environmental): Environmental review would consider the impacts of the fuel load reduction activities on any protected sensitive species/habitat in the project area. Would need to develop detailed description of the fuel load reduction activities in the reduction plans identifying activities that would occur, such as temporary road construction, development of equipment staging areas. Measures could be developed to minimize any potential impacts to sensitive resources. Noise impacts would be considered should protected animal species be in the project area. Because project would create a fire safe environment benefiting recreationists, watershed and fish spawning areas, analysis would likely document why the program would not significantly adversely affect sensitive resources.

Environmental analysis would be triggered by project requiring discretionary action as opposed to ministerial action. Environmental review of fuel reduction plans would probably entail an EIR or Mitigated Negative Declaration, depending upon the project area size and environmental impact of fuel reduction activities. Development of fuel load reduction plans and their environmental analysis would probably take longer than a normal interim project timeline. An EIR requires public review and comment (45 days) as well as a draft and final document. FERC approval could be a concern because of the presence of sensitive resources.

9. Project name: Improve Day Use Parks

Project description: Improve day use park: water lines in the east side of the river between the Fish Barrier Dam and the Diversion Dam need to be installed to irrigate plantings. Restroom and day use area improvements needed.

Criteria analysis: Clear.

Project cost: N/A until description is further developed.

Assumptions: Need to identify water source, identify plantings, length of waterline, etc. Identify improvements needed.

10. Project name: Fish Hatchery Landscaping

Project description: Replace landscaping at the Feather River Fish Hatchery and adjacent areas.

Criteria analysis: Clear.

Project cost: Landscape architect fees = \$5,000. Planting of native vegetation could take four DPR staff cost \$30-40,000. The cost of the plants could cost \$5,000. Project manager costs of \$5-10,000. Total cost = \$45-60,000.

11. Project name: Removal of Non-Natives

Project description: Create work team or hire CCC to remove invasive, non-native plants from State Water Project and DWR areas.

Criteria analysis: Clear.

Project cost: This could be calculated using the CCC's fee schedule (\$13.75 per person per hour).

12. Project name: Re-seed Oroville Dam and Reservoir Rim

Project description: Re-seed the face of the Lake Oroville Dam and the rim of the reservoir.

Criteria analysis: Face area of Oroville Dam is about 82 acres. A local aerial applicator (crop duster) estimates \$500 plus seed to cover area.

Oroville Reservoir has 167 miles of shoreline at maximum pool. Several miles would be too rocky to seed. Assume about 100 miles "seedable".

Project cost: If we do a 100-foot strip: $(100\text{mi} \times 5280\text{ft}/\text{mi} \times 100\text{ft})/43560 = 1200$ acres.

Aerial Application: $(\$500/82\text{acres}) \times 1200$ acres = \$7500 plus seed. FYI: Hydroseed runs about \$2000/acre.

Boating/Fishing/Aquatic Activities

13. Project name: Height-Adjustable Swimming Dock

Project description: Install a height-adjustable swimming dock that will allow users to reach the water when lake level is low. The facility should have permanent, fixed piers that allow an attached floating dock to rise and lower according to lake level. Potentially the floating dock could be anchored at the mid-way point in Loafer Creek swim area. Consideration of a floating dock at Loafer Creek brings back the idea of an in-ground pool built to replicate a natural swimming area.

Project Cost: The dock will need to be approximately 333' based on a slope of 30% and a height difference of 100'. The dock material comes in 10' by 20' sections. The installed

floating dock is approximately \$100 a square foot. Thus for 333' it would require 17 sections at \$20,000 each for a total of \$340,000.

14. Project name: Boating Safety Training

Project description: Provide safety training on the proper operation of boats. This could occur at Lake Oroville and the North Forebay.

Criteria analysis (Operational/Safety): The DWR, the DPR, or another peripheral group such as the Department of Boating and Waterways, The U.S. Coast Guard, or the Butte Sailing Club would have to provide the training courses. Courses could be held once a month at various locations at the LOSRA. The demand for this service needs to be established. Funding for capital expenditures needs to be secured.

Project cost: The courses would be fee-based to cover the costs of instructors and materials. Depending on the course, the fee schedule could be developed similar to the fees provided in the above example. Research demand for classes. If demand exists, a program manager would design the programs, purchase the equipment, and contract with instructors. Total cost about \$5-10,000. This program would need reliable sources of future funding for instructors and insurance, etc.

Various Enhancements to Existing Facilities

15. Project name: Camping at the Oroville Wildlife Area

Project description: Improve the camping conditions at the Oroville State Wildlife Area.

Criteria analysis: Clear.

Project cost: A researcher could determine what conditions need improvement. The process could begin by coordinating with DFG staff and visiting the site and talking with campers about conditions. The roads could use paving, vault toilets could be installed, a potable water source

could be developed, a lot of garbage needs to be collected, fees could be collected in order to fund a maintenance program, and designated areas could be developed for RV or tent camping. This would require contractor fees for paving or graveling roads, improving restrooms, developing designated camping areas, and developing a potable water system. Labor costs would be needed for the initial cleanup with future funding for garbage collection and maintenance.

Contractor fees: paving = \$10,000.00; water system development = \$30,000; designated camping area development = \$10,000.00. Labor costs: initial clean-up = \$3,000.00; on-going maintenance for one staff person one day a month (about \$6,000). Total for the capital improvements and initial clean-up, about \$50,000.00. On-going maintenance = \$6,000 per year. For 30 years = \$180,000. Total cost = \$230,000.

16. Project name: Shooting Range

Project description: Larkin shooting range owned and maintained by the state off Larkin Road south of the Oroville Airport. Enhance the parking area condition, accessibility and drainage.

Criteria analysis: Clear.

Project cost: Estimated Labor = \$60,000; Materials = \$ 5,000. Total cost = \$65,000.

17. Project name: Winterize Floating Campsites

Project description: Convert floating campsites for winter use.

Criteria analysis: Enclose entire structure in ¼" Plexiglas.

Project cost: Estimated: \$4000 material; \$4000 labor; \$8,000 total each.

Assumptions: Demand for winter use exists.

18. Project Name: Feather River Enhancement Project

Project Description: This potential interim project is being proposed to include the following integrated components:

- 1) **River Bend Park bicycle trail improvements.** The paved bicycle trail improvements are divided into two sections, both of which are located from the Highway 70 Bridge to Highway 162 Bridge. The first section is to repair and relocate portions of an existing loop trail located entirely within River Bend Park, including a segment under the Highway 70 Bridge. This lower portion of the loop is subject to near annual inundation. One portion needs to be relocated and another portion should be rebuilt with concrete to avoid water quality problems. The second segment of work is to connect River Bend Park with Highway 162 utilizing the historic railroad alignment and existing ramps up to the 162-road way. Bicycle racks, park benches and interpretive signage is included at appropriate locations along the way.
- 2) **Re-vegetation/Irrigation.** This work is confined to River Bend Park and involves planting the barren earthen and rock landscape with both sections of native plantings, turf and trees. Appropriate soil preparation, water supply, and irrigation is included. Use native vegetation where appropriate and feasible.
- 3) **Day use facilities (picnic/group facilities).** The planned facilities consist of approximately 40 family picnic sites, five four-table group sites and two fifty-person group sites. Site improvements include A.D.A. compliant concrete pads, sheds, shelters, trash receptacles, barbecues, intermittent drinking fountains, appropriate recreation improvements such as tot lot, horseshoe pits, etc., and lighting.
- 4) **Parking facilities.** This item includes appropriately sized and located parking to serve both day and bicycle path users, with needed signage and striping. A companion grant

fund request has been made to the Department of Boating and Waterways, which would also be used to pave parking areas and repair or upgrade the existing on site launch ramp.

- 5) **Public restrooms.** Three public restrooms are included plus two stubbed lines for future use. The restrooms need to be designed to be flood proof and with a force main return to the city sewer system. The two stubbed lines are for a restroom to be built with the Department of Boating and Waterways launch ramp project and for the modular visitor tourism building.
- 6) **Re-contouring/restoration/re-vegetation.** This project is located at the southern edge of River Bend Park and extends southerly into the area being leased from the State Wildlife Conservation Board. The work will be confined to the severely damaged areas by dredging and indiscriminate vehicle activity. The area will be re-contoured and the roadway regarded and confined. Care will be taken to affect existing trees and significant native vegetation. Restoration re-vegetation will utilize appropriate native species. Consultation regarding an ongoing vegetative maintenance program will be included in order to assure long-term health of this natural area. A companion grant fund request has been made to the State Wildlife Conservation Board to rehabilitate the existing fishpond area.
- 7) **Temporary visitor facility and allied infrastructure.** This project involves placing a modular visitor/tourism building at the junction of River Bend Park with the Highway 70 interchange. It is proposed as a partnership project with the park district and the chamber of commerce. Site improvements will be interim in nature, and the building re-locatable since the site is a great candidate location for a future visitor center for the entire Oroville project area.
- 8) **Utilities to the site.** The Feather River Recreation and Park District proposes to drill two water wells on the site to provide for irrigation water and to extend public water and sewer lines into the park from the foot of Montgomery Street for potable water and

sanitation needs. Electricity can be brought on to the site by PG&E from a line on the edge of the park site.

- 9) **Security and Maintenance.** Security of the area would be necessary as there would be parking areas, visitor facilities, and other improvement susceptible to vandalism and other detrimental activities. A long-term maintenance and operations schedule with secure funding would also be needed.

Criteria Analysis (Environmental): Because of the existence of previous environmental review under CEQA, some of the individual projects currently proposed could possibly qualify as interim projects and be evaluated as an addendum to the original 1977 EIR. However, certain findings need to be made in order to use the addendum process. These findings include: 1) Determining that there have been no substantial changes to the project; 2) Determining that there have been no substantial changes to the circumstances under which the project was undertaken, including new significant impacts or a severity in previously identified impacts; 3) Determining that there is no new information, which could not have been known at the time the 1977 EIR was certified. If changes in the project or its circumstances occur or new information becomes available the agency is required to prepare a subsequent EIR. [CEQA Guidelines Sections 15162 and 15164]

Environmental review of the infrastructure portion of the project would consider the physical characteristics of the project site; particularly whether sensitive or protected species/habitats are located on the project site or immediately adjacent to the site. Access to the area would also be considered. The environmental analysis would evaluate construction and operation of the infrastructure installation. Construction impacts would include equipment staging, erosion, sedimentation potential from construction, dust generation, increased noise, and disruption to biological and hydrological resources. Operational impacts would consider impacts related to maintenance activities and increased public use. Relationship of the proposed project to existing and planned activities in the area would be considered, as well as consistency with applicable environmental plans for the area.

Because the visitor tourism center project may not have been included in the 1977 EIR, it may not qualify as a project that could use the addendum process. Inclusion of a modular/tourism building and parking lot to stage a temporary Chamber structure could be a new project requiring new environmental analysis. Because the modular/tourism building would provide temporary headquarters while planning the more extensive visitor tourism project, it would be likely that the environmental evaluation would need to consider the ultimate project under consideration. CEQA defines a “project” as the whole of an action [CEQA Guidelines Section 15378]. CEQA further notes that where an individual project is a necessary precedent for action on a larger project, or commits the agency to a larger project, with significant environmental effect, an EIR must address itself to the scope of the larger project [CEQA Guidelines Section 15165]. Additionally, case law has determined that the lead agency must consider the whole of an action, not simply its constituent parts, when determining whether it will have a significant environmental effect [Citizens Assoc. for Sensible Development of Bishop Area v. County of Inyo (1985) 172 Cal.App.3d.151].

Environmental analysis would be triggered by the project requiring a discretionary action as opposed to ministerial action. The coordination with local agencies, environmental review and implementation of the visitor tourism component of the project could take more time than normally considered for an interim project. Depending upon the sensitivity of the environmental resources affected by the project, the environmental documentation could range from an EIR (taking about one year to certification) to a Mitigated Negative Declaration (taking less time than an EIR, but requiring mitigations to be incorporated into the project

Analysis Cost: Dependent upon level of analysis.

Project Cost: The combined improvements, security, and maintenance programs would cost at least \$1.5 million or more to establish and fund into the future.

Other Recreational Opportunities

19. Project name: Seaplane Base

Project description: Develop a seaplane base at North Thermalito Afterbay for public use.

Seaplane bases can be as simple as a body of water on which seaplanes are permitted to land, but usually include fuel, maintenance, and moorage facilities.

Criteria analysis (Environmental/Regulatory): The process would require approval of the FAA (Notice of Landing Area Proposal form 7480-1). In some states a state-issued seaplane base license is also required. Permission from the DWR would have to be obtained. Local zoning regulations would have to be amended if they don't allow aircraft activity in the area.

A project manager would have to oversee the planning implications (architectural design of the facilities), contractor agreements, and site management. A beach of some kind would have to be created for the planes to pull out of the water. An option requiring more development would be to build docks for the planes to tie-up to. Restroom facilities would have to be built. Fuel services and maintenance facilities could be built.

Project cost: A project manager could work full-time for up to four months on a project of this size (about \$35,000). Architectural deliverables = \$15,000.00. Contractor fees for a restroom and simple beach landing area = \$150,000.00. If the docks, fuel facility, and maintenance area are developed add another \$150,000.00. Total = \$200,000; if docks, fuel facility, and maintenance area are developed = \$350,000.

Assumptions: Demand exists.

20. Project name: Model Airplane Site Improvements

Project description: Provide site improvements to existing flying site for model airplanes.

Criteria analysis: Clear.

Project cost: Estimated at \$120,000

21. Project Name: Tournament Waterski Site

Project Description: Develop facilities at the Afterbay to support events, including grandstands, toilets and tournament water ski site.

Criteria Analysis (Environmental): Would need to consider the impacts from construction and operation of a tournament water ski area. Describe the land side and on-water construction activities. Determine the types of facilities needed to support the operation of the area during tournament activities. Identify schedule of highest use and needs during that use. Identify proximity of sensitive resources to the water ski area and activities. Best sites for observation would be along dam crest. Could not be permanent for maintenance and dam safety purposes.

Environmental analysis would be triggered by project requiring discretionary action as opposed to ministerial action.

Assuming that construction of the water ski area would disturb aquatic and land biological species, and increase public access to the area for viewing the water ski competitions, it is likely that the project would have an affect on the physical environment, requiring preparation of an Initial Study to determine whether the project could generate potentially significant environmental impacts. If such impacts are identified and measures cannot be incorporated into the project to mitigate these impacts, an EIR would need to be prepared. An EIR would take a longer time to prepare and certify with mandated public review periods (45 days) during the process.

If the project would not have the potential for significant impacts, a Negative Declaration could be issued. If the project would have potentially significant impacts, but mitigation measures could be incorporated into the project to reduce or eliminate these impacts, a Mitigated Negative Declaration could be issued. An Initial Study or Mitigated Negative Declaration could be

prepared in less time than an EIR and require a 30-day posting period during which challenges to the document can be made.

Analysis cost: Dependent upon the level of analysis.

Project Cost: Dependant on analysis; if development occurred, it could cost between \$50, 000 and \$150,000.

Economic Development

22. Project Name: Campbell Hills Property Acquisition

Project Description: Continue existing uses such as hang-gliding, kite flying, paragliding at area bordering Thermalito Forebay Recreational Area.

Criteria Analysis: Greater information about this property is needed to ascertain the potential environmental and regulatory requirements.

Project Cost: TBD

Debris Removal and Clean-Up Activities

23. Project Name: Remove Railroad Trestle and Other Debris from River

Project Description: Remove concrete left over from dam and bridge construction. Maintain remnants of historic three-span wooden bridge during removal activities.

Criteria Analysis (Environmental/Regulatory): May need to evaluate potential for removal activities to affect existing sensitive resources in the area and affect historic bridge remnants. Range of analysis would depend upon the project size, nature of activities to be undertaken to

remove debris, and sensitivity of resources that could be affected by the project. Protected historic and biological resources would require coordination with regulating agencies. Environmental analysis would be triggered by project requiring discretionary action as opposed to ministerial action.

Because of the presence of historic resources and sensitive biological resources, this project would likely require more detailed analysis of the project impacts and coordination with the agencies responsible for protecting these resources (State Historic Preservation Officer and State Fish and Game). Would be more likely that an EIR or Mitigated Negative Declaration would be prepared, which would require a more substantive time frame, to complete environmental review. FERC approval could be a concern because of the potential presence of sensitive resources

Analysis Cost: Dependent upon level of analysis.

Project Cost: The project would require either DPR personnel at \$20.00 per person per hour or the CCC at \$13.75 per person per hour. It could require a few months of labor.

24. Project name: Screen Dump Areas and Boneyards

Project description: Screen dump areas and boneyards between the Spillway and the Dam, used by DWR.

Project Cost: The project would require removal of the undesirable materials. It could require a few weeks of labor. The total project cost could be between \$5,000 and \$10,000.

25. Project name: Shoreline Cleanup

Project description: Clean up shoreline, particularly adjacent to camping and public access areas.

Criteria analysis: Use county prisoner-release programs if necessary, to maintain clean shorelines. County prisoner program could be an option; they currently do similar work around the Afterbay. Currently use California Conservation Corps (CCC) for this work. Estimate they clean about 10 miles of shoreline per year, mostly around boat ramps and marinas.

Project cost: Current cost is \$50,000/year, so it is about \$5,000 per mile of shoreline. Current CCC rate is \$13.75 per hour per worker.

Public Safety/Access

26. Project name: Warning System

Project description: Install warning system for water releases.

Criteria analysis (Operational/Safety): Siren currently exists at Thermalito Diversion Dam.

Project cost: To add three additional sirens estimated \$35,000 labor and material.

Restrooms and Picnic Areas

27. Project name: Restroom Upgrades

Project description: Upgrade portable restrooms to permanent ones.

Criteria analysis: Need to quantify. Currently use two permanent types. Currently planning to install two waterless types at River Outlet.

Project cost: Regular restrooms = \$50,000 to \$100,000 depending on size. Waterless restrooms = \$15,000 each.

Roads

28. Project name: Upgrade Roads to Facilities

Project description: Upgrade roads to facilities within project boundaries, including paving the entrance to the equestrian area.

Criteria analysis: Clear.

Project cost: Need to quantify, what roads? To recondition existing roads (24' width): New base rock and paving \$175,000/mile; 2" asphalt overlay - \$72,000/mile; 3" asphalt overlay - \$105,000/mile.

Parking

29. Project name: Trailer Parking at Equestrian Camp

Project description: Provide boat trailer parking at the Equestrian Camp.

Criteria analysis (Environmental/Regulatory): This appears to be an expansion of an existing parking area, which would probably need an Initial Study/Negative Declaration (because additional area would likely be graded to expand parking area).

Analysis cost: Dependant on the level of analysis.

Project cost: Estimated Labor = \$40,000; Materials = \$ 5,000, for a total of about \$45,000.

Access

30. Project name: Vehicle Access at Lakeland Boulevard

Project description: Provide access for vehicles at Lakeland Boulevard to the old railroad grade area of the Diversion Pool with future consideration of improvements to the same area.

Criteria analysis (Environmental): This project would appear to fall within the interim project environmental guidelines, assuming that proposed improvements would minimally affect existing environmental resources. However, safety concerns with the adjacent railroad would have to be addressed.

Project cost: DWR's Division of Engineering is currently preparing an estimate on this work. Would need to consider the impacts of roadway construction and operation and impacts of constructing new improvements for the area. Describe what the improvements would be, where they would be located, and how they would be used. Determine whether the road would be paved or unpaved. Identify the periods of use for the area. Determine the increase in recreational use from these improvements. Evaluate the physical impacts of the construction and operational activities.

Analysis cost: Dependant on the level of analysis.

Project cost: Depending on alternative, estimates could range from \$200,000 to \$2.5 million.

Trails

31. Project Name: Develop a Demonstration Parallel Mountain Bike Trail

Project Description: Develop a 7-9 mile mountain bike trail, parallel to the Dan Beebe Trail, for off-road mountain bicyclists, from Canyon Drive to Lake Oroville. Create a trail system for the off-road cyclists, which does not exist to date. Create a trail for off-road mountain cyclists consistent with the terrain and technicality important to the sport of mountain biking. This plan would create a demonstration course that could stage world-class races. About 5.5 miles would need an easement from PG&E.

Criteria Analysis (Environmental) If this concept were implemented into a comprehensive trail plan, the environmental review would consider the physical characteristics of the project area; particularly whether sensitive or protected species/habitats are located on the project site or immediately adjacent to the site. Access to the area would also be considered. The environmental analysis would evaluate construction and operation of the trail system. Construction impacts would include equipment staging, erosion, sedimentation potential from construction, dust generation, increased noise, and disruption to biological and hydrological resources. Operation impacts would consider impacts related to ongoing off-road mountain bicyclist use, including trail erosion impacts. Compatibility of the bike trails with hiking activities and equestrian use would be evaluated. Relationship of the proposed project to existing and planned activities in the area would be considered, as well as consistency with applicable environmental plans for the area.

Environmental analysis would be triggered if the project would require discretionary review as opposed to a ministerial act. This project would have a moderate likelihood of conflicting with the existing FERC license order because of its potential to affect sensitive species and habitat.

The coordination with local agencies, environmental review and implementation of this project would probably take more time than normally considered for an interim project. Depending upon the sensitivity of the environmental resources affected by the project, the environmental documentation could range from an EIR (taking about one year to certification) to a Mitigated Negative Declaration (taking less time than an EIR, but requiring mitigations to be incorporated into the project).

Analysis Cost: Dependent upon level of analysis.

Project cost: Professional trail construction contractors charge approximately \$19.00 per foot of trail. Another option would be to have the CCC install trails for about \$1,000 per day per crew of 5-10 workers. The length of trail(s) would have to be measured and specified to determine exact costs. The need for land acquisition or easements is unknown. Signage would also be needed.

32. Project Name: Investigation and Acquisition of Property (AP#033010042)

Project Description: Investigate and acquire 83.14 acres (AP#033010042), which is held by private ownership at present, and is currently offered for sale. The property is located alongside the Lakeland Blvd overlook parking area, adjacent to the Feather River and going west towards the Nature Center.

Criteria Analysis: TBD.

Project cost: The purchase price of the property is unknown, but would be about one million dollars.

33. Project Name: Widening Road Along Greenline

Project Description: Widen the road along “greenline,” the bike path along the road to the Dam. Most areas would require only enhancement of existing shoulders. Improvements contained to three critical areas.

Criteria Analysis: Analyzing the widening of the greenline would require this project be defined. Analysis would require a thorough description of the project, who owns the property to be widened, and a description of the developments currently on site.

Project cost: Calculated based on project description.

34. Project Name: Group Staging Area

Project Description: Establish a large group staging area and event facility that could be used for competitive and “Bike Rodeo” events, with a suggested site being on the Thompson Flat abandoned area where the bike trail crosses Cherokee Road.

Criteria Analysis: Depending upon the sensitivity of the environmental resources affected by the project, the environmental documentation could range from an EIR (taking about one year to certification) to a Mitigated Negative Declaration (taking less time than an EIR, but requiring mitigation to be incorporated into the project).

Analysis Cost: Dependant on level of analysis.

Project cost: To determine the cost of site development more detail is required. Spectators would need places to sit, get a drink of water, and have a restroom available. All of these additions would need to be specified. A rough estimate could be arrived at by assuming that the site development would be between \$30,000 and \$150,000. The spectator developments could cost \$10,000-\$20,000 for grandstands. Regular restrooms are \$50,000 to \$100,000 depending on size; waterless restrooms are \$15,000 each. The drinking fountain system could cost \$10,000. Thus, the total cost could be about \$150-300,000.

35. Project Name: Lake Oroville Overlook Improvements-1

Project Description: Remove old cyclone fence and concrete freeway dividers along Highway 162 north of and adjacent to the Bidwell Bar Suspension Bridge. Replace with a new fence built according to DWR and/or Caltrans specifications. Install a sign with a map and information for the lake. Provide a permanent trash container. The length of the fence is approximately 130 feet. These improvements would be located at the existing paved turnout and would enable the visitor to view or photograph the Lake Oroville vistas and the suspension bridge without interference from the existing fence and freeway dividers.

Criteria Analysis: The removal and replacement of existing equipment and fencing at the same location could be exempt from environmental review under Class 1, which includes the repair, maintenance, permitting, leasing, licensing or minor alterations of existing public or private structures, facilities, mechanical equipment, or topographic features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination. [CEQA Guidelines Section 15301]. Safety considerations from the removal of the concrete freeway

dividers would need to be considered. Upgrade of existing uses would appear to meet the interim project guidelines.

Analysis Cost: Dependent upon level of analysis.

Assumptions: Environmental analysis would be triggered if the project would require discretionary review as opposed to a ministerial act. This project would have a low likelihood of conflicting with the existing FERC license order.

Project cost: The cost of the project would depend on the level of cleanup, hand labor, and heavy equipment involved in debris removal. A new fence would require a contractor's estimate. The installation of a sign could cost between \$3,000-\$5,000. Trash receptacles are between \$200-\$500 depending on material.

36. Project Name: Lake Oroville Overlook Improvements-2

Project Description: Remove earth mounds on the lake side of Highway 162 north of Simpson Ranch Road, between the Bidwell Bar Bridge and the Canyon Creek Bridge. Construct paved parking areas, a visually pleasant fence and permanent trash receptacles. Install a sign with a map and information for the lake.

Criteria Analysis: Would need to consider the impacts of parking construction and of constructing new improvements for the area. Describe what the improvements would be, where they would be located, and how they would be used. Identify whether project area contains any sensitive or protected species. Evaluate the physical impacts of the construction and operational activities. Development of a vehicle turnout area would appear to meet the interim project guidelines. There would need to be coordination with Caltrans because of a potential sight distance issue.

Analysis Cost: Dependent upon the level of analysis.

Project Cost: Removing of the earth hill would require heavy equipment (cost TBD, but could be from \$10,000-\$100,000). Paved parking areas could cost between \$10,000-\$50,000. Fencing could cost a few hundred dollars per dozen feet, depending on materials and labor required. The installation of a sign could be between \$3,000-\$5,000. Trash receptacles are between \$200-\$500 depending on material.

Assumptions: Environmental analysis would be triggered by project requiring discretionary action as opposed to ministerial action. This would have a low likelihood of conflicting with the existing FERC License Order.

Analysis Cost: Dependent upon level of analysis.

Assumptions: Environmental analysis would be triggered if the project would require discretionary review as opposed to a ministerial act. This project would have a moderate likelihood of conflicting with the existing FERC license order because it would represent new development in the area and could potentially affect sensitive species and habitat.

Project cost: Picnic tables are between \$300-\$1500. Benches are between \$200-\$500. DPR staff at \$20.00 per hour per person could create permanent shade structures. A rough estimate for sun structures similar to those at North Themalito Forebay would be \$4,000 each. Permanent restrooms = \$50,000 to \$100,000 depending on size. Waterless restrooms = \$15,000 each. The installation of a sign could be between \$3,000-\$5,000. Trash receptacles are between \$200-\$500 depending on material. The parking area could be \$30,000-\$100,000, depending on the materials and area covered. The cost of trees is dependant on amount and type; a rough estimate to have shade trees (e.g. American sycamores) planted around a small parking area is \$3,000-\$6,000.

37. Project Name: PG&E Land Acquisition

Project Description: Purchase a five acre parcel of property from PG&E for the purpose of increasing recreational opportunities at LOSRA.

Criteria Analysis: Greater information about this property is needed to ascertain the potential environmental and regulatory requirements. However it is believed to have hazardous waste on the site.

Project Cost: The property has an estimated value of at least \$60,000. Additionally, the cost of the cleanup would be between \$60,000 and \$120,000. The total cost could be at least \$120,000 to \$180,000.

**Evaluation and Approval Process
for
Oroville Facilities Interim Relicensing Recreation Enhancements**

The following is a proposed process to evaluate the merits and selection of proposed interim recreation enhancements for the Oroville Facilities. These recreation enhancements would eventually be part of a new recreation plan that will be submitted by the Department of Water Resources (DWR) to the Federal Energy Regulatory Commission (FERC) as part of its application to relicense the Oroville Facilities. However, the intent is to implement these enhancements prior to submittal of that application.

- **Establish a Task Force**

The Recreation and Socioeconomics Work Group would select a subset of members to represent the larger Work Group in undertaking this particular task. The task force membership would strive to represent the varied interests of the work group while allowing the group to be of a manageable size. A neutral facilitator would facilitate this Task Force. Consultant and DWR staff would be available to assist the Task Force with this process, particularly with any research, or technical expertise required. The Task Force would initially develop a mission statement to guide their efforts.

- **Develop Interim Recreation Enhancement Candidate List**

It would be the responsibility of the Task Force to develop a list of potential interim recreation enhancements. However, the Task Force would elicit this list from the varied interests of the Recreation Work Group. The Work Group would strive to have this list include those recreation enhancements that would be most appropriately implemented prior to submittal of the license application.

Clarify and Describe List Items

To fully evaluate the list, each candidate item would be more fully developed to describe the details of that item. Each item would have such factors as scope of the project,

**Evaluation and Approval Process
for
Oroville Facilities Interim Relicensing Recreation Enhancements**

Attachment C